BASELINE

May-June, 1977

CONTINUOUS BASELINE STUDY (MODIFIED)

FOURDRINIER KRAFT BOARD GROUP

FOR MAY AND JUNE, 1977

Project 2694

Report Sixty-Three

A Progress Report

to

FOURDRINIER KRAFT BOARD GROUP

of The

AMERICAN PAPER INSTITUTE

August 31, 1977

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

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(MILL LINERBOARD DATA FOR MAY AND JUNE, 1977)

Project 2694-1

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Appleton, Wisconsin

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL LINERBOARD DATA FOR MAY AND JUNE, 1977)

SUMMARY

PART I: SUMMARY OF MOISTURE CONTENT DATA (MARCH-JUNE, 1977)

Linerboard Grade Wt.		Moisture Content March	April	May	June
26 Lb	Max.[a]	5.7	6.6	6.3	5.4
	Min.[a]	1.9	2.9	1.0	1.3
	Av.[b]	4.2(14)	4.6(19)	4.5(18)	4.1(17)
33 Lb	Max.[a]	6.1	6.5	6.3	6.1
	Min.[a]	2.8	2.1	2.2	2.3
	Av.[b]	4.7(25)	4.8(27)	4.7(24)	4.6(26)
38 Lb	Max.[a]	6.3	6.2	6.4	6.9
	Min.[a]	2.5	3.0	3.3	2.9
	Av.[b]	5.1(21)	5.1(21)	5.0(22)	5.2(18)
42 Lb	Max.[a]	6.9	6.9	7.1	7.3
	Min.[a]	2.6	2.6	2.9	3.1
	Av.[b]	5.2(43)	5.2(44)	5.1(42)	5.1(41)
69 Lb	Max.[a]	7.7	8.1	8.1	8.1
	Min.[a]	3.7	3.4	3.5	4.0
	Av.[b]	5.9(30)	5.9(33)	5.8(31)	5.9(30)
90 Lb	Max.[a]	7.8	7.5	7.3	7.2
	Min.[a]	3.3	3.3	2.8	3.7
	Av.[b]	5.8(16)	5.7(12)	5.8(14)	5.8(15)

[a] Current machine average.

[b] Current FKBG average, number of machines is indicated in parentheses.

PART II: SUMMARY OF ADJUSTED BASIS WEIGHT DATA (MARCH-JUNE, 1977)

Linerboard Grade Wt.		Adjusted Basis Weight, lb/M ft^2 March	April	May	June
26 Lb	Max.[a]	28.7	27.7	27.8	27.8
	Min.[a]	26.2	25.9	25.5	26.1
	Av.[b]	26.9(14)	26.6(19)	26.6(18)	26.7(17)
33 Lb	Max.[a]	35.4	35.4	[illegible]	35.1
	Min.[a]	32.7	32.5	32.5	32.8
	Av.[b]	33.6(25)	33.6(27)	33.5(24)	33.5(26)
38 Lb	Max.[a]	39.7	40.1	39.4	39.8
	Min.[a]	37.4	37.3	37.6	38.0
	Av.[b]	38.6(21)	38.6(21)	38.6(22)	38.6(18)
42 Lb	Max.[a]	44.7	44.3	44.0	44.4
	Min.[a]	41.6	41.3	41.2	41.9
	Av.[b]	42.5(43)	42.6(44)	42.5(42)	42.6(41)
69 Lb	Max.[a]	70.6	71.1	70.9	70.3
	Min.[a]	68.1	68.0	67.2	69.0
	Av.[b]	69.5(30)	69.6(33)	69.6(31)	69.6(30)
90 Lb	Max.[a]	92.0	92.7	92.0	92.1
	Min.[a]	89.5	88.5	88.8	89.8
	Av.[b]	90.8(16)	90.7(12)	90.7(14)	91.0(15)

[a]Current machine average.

[b]Current FKBG average, number of machines is indicated in parentheses.

PART III: SUMMARY OF CALIPER DATA (MARCH-JUNE, 1977)

Linerboard Grade Wt.		Caliper, pt. March	April	May	June
26 Lb	Max.[a]	9.0	8.9	9.5	9.4
	Min.[a]	7.1	7.2	6.7	7.3
	Av.[b]	7.9(14)	8.0(18)	7.8(17)	8.1(17)
33 Lb	Max.[a]	11.6	11.6	11.1	11.0
	Min.[a]	8.7	8.6	8.7	8.6
	Av.[b]	9.8(24)	9.7(26)	9.8(23)	9.8(25)
38 Lb	Max.[a]	12.3	11.5	11.9	11.6
	Min.[a]	10.1	10.1	10.1	10.2
	Av.[b]	10.9(20)	10.8(20)	10.9(22)	10.9(17)
42 Lb	Max.[a]	14.3	15.0	13.9	13.6
	Min.[a]	10.3	10.4	10.8	10.9
	Av.[b]	12.0(42)	12.1(43)	12.1(41)	12.1(40)
69 Lb	Max.[a]	21.5	21.9	22.0	21.5
	Min.[a]	18.0	18.0	18.1	17.8
	Av.[b]	19.5(30)	19.7(33)	19.6(31)	19.7(30)
90 Lb	Max.[a]	27.5	26.5	27.0	27.0
	Min.[a]	22.7	24.6	22.6	23.6
	Av.[b]	25.0(16)	25.6(12)	25.1(14)	25.4(15)

[a]Current machine average.

[b]Current FKBG average, number of machines is indicated in parentheses.

PART IV: SUMMARY OF BURSTING STRENGTH DATA (MARCH-JUNE, 1977)

Linerboard Grade Wt.		Bursting Strength, psig March	April	May	June
26 Lb	Max.[a]	80	84	83	80
	Min.[a]	59	63	64	63
	Av.[b]	71(14)	72(19)	72(18)	72(17)
33 Lb	Max.[a]	104	104	106	102
	Min.[a]	79	79	76	78
	Av.[b]	86(25)	87(27)	85(24)	87(26)
38 Lb	Max.[a]	108	104	113	112
	Min.[a]	87	89	88	90
	Av.[b]	98(21)	97(21)	97(22)	96(18)
42 Lb	Max.[a]	116	117	119	117
	Min.[a]	97	100	99	97
	Av.[b]	105(43)	106(44)	105(42)	105(41)
69 Lb	Max.[a]	153	158	155	155
	Min.[a]	133	134	132	132
	Av.[b]	142(30)	143(33)	142(31)	142(30)
90 Lb	Max.[a]	191	177	186	182
	Min.[a]	161	162	153	157
	Av.[b]	172(16)	169(12)	170(14)	169(15)

[a]Current machine average.

[b]Current FKBG average, number of machines is indicated in parentheses.

INTRODUCTION

The continuous base-line study (modified) is a compilation of monthly averages of mill test data obtained routinely on six major grade weights of linerboard manufactured in the member mills of F.K.B.G. Mill data are included for moisture content, basis weight, caliper, and bursting strength tests made on the production of individual machines which produced at least 500 tons of one or more of the following six major grade weights during a given month: 26, 33, 38, 42, 69, and 90 lb. At the Institute, the as-reported basis weight, corresponding to the as-reported moisture content, is adjusted to a moisture content of 7.8%. Both the as-reported and the adjusted basis weight averages are included in the report. Note that the moisture content of the as-reported basis weight (not shown in tables) does not necessarily agree with the moisture content indicated in the report as measured at the reel. This is because some mills measure their basis weight at other than reel or standard conditions. The as-reported basis weight is included in the tables for reference only and should not be used for comparison purposes.

PRESENTATION OF DATA

For the six major grade weights of linerboard referred to earlier, mill test averages for moisture content, basis weight (reported and adjusted), caliper, and bursting strength are compiled in the following tables.

Table Number	Description
I - II	Mill Test Averages on 26-lb Linerboard
III - IV	Mill Test Averages on 33-lb Linerboard
V - VI	Mill Test Averages on 38-lb Linerboard
VII - VIII	Mill Test Averages on 42-lb Linerboard
IX - X	Mill Test Averages on 69-lb Linerboard
XI - XII	Mill Test Averages on 90-lb Linerboard

TABLE I

AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 26 LB FOURDRINIER KRAFT LINERBOARD

MAY, 1977

	MOISTURE CONTENT, PERCENT				BASIS WT., LB / M SQ FT				ADJ. BASIS WT.,*A LB / M SQ FT				CALIPER, PT				BURSTING STRENGTH, P S I G			
		MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA		
CODE	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
D1		5.7				26.1				26.2								69		
E1		4.1				25.4				26.4				7.2				69		
F1		4.9				26.0				26.8				8.1				70		
G1		5.5				25.8				26.4				8.5				75		
I1	4.6	4.7	97.9	102.2	25.8	25.8	100.0	99.2	26.7	26.6	100.4	100.0	7.8	7.9	98.7	98.7	72	70	102.8	100.0
L1		6.0				26.4				26.5				8.5				71		
M1		5.3				27.1				27.2				8.5				66		
O1	4.9	4.9	100.0	108.9	26.1	26.1	100.0	100.4	26.9	26.9	100.0	100.7	9.5	9.0	105.6	120.2	71	71	100.0	98.6
Q1	3.8	3.8	100.0	84.4	26.3	25.8	101.9	101.2	27.4	27.0	101.5	102.6	7.6	7.7	98.7	96.2	70	76	92.1	97.2
R1		5.4				26.6				27.3				7.5				65		
X1	4.9	5.0	98.0	108.9	24.9	25.6	97.3	95.8	25.7	25.9	99.2	96.2	7.4	7.6	97.4	93.7	69	69	100.0	95.8
Y1		4.0				26.1				27.2				7.3				76		
Z1		4.4				26.2				26.3				8.0				72		
A2	4.2	3.3	127.3	93.3	26.9	26.9	100.0	103.5	27.0	27.0	100.0	101.1	7.3	7.6	96.0	92.4	69	71	97.2	95.8
B2	4.7	4.2	111.9	104.4	25.6	25.5	100.4	98.5	26.5	26.5	100.0	99.2	7.5	7.1	105.6	94.9	68	68	100.0	94.4
C2	3.7	3.8	97.4	82.2	26.4	27.3	96.7	101.5	26.5	27.4	96.7	99.2	7.8	7.9	98.7	98.7	67	73	91.8	93.0
E2	4.4	4.1	107.3	97.8	25.9	26.0	99.6	99.6	26.9	27.0	99.6	100.7	7.7	7.8	98.7	97.5	70	70	100.0	97.2
G2	3.0	2.6	115.4	66.7	25.4	25.3	100.4	97.7	26.7	26.7	100.0	100.0	8.4	8.2	102.4	106.3	73	75	97.3	101.4
H2	1.0	0.7	142.8	22.2	25.9	25.6	101.2	99.6	27.8	27.6	100.7	104.1	8.3	8.2	101.2	105.1	67	66	101.5	93.0
J2		4.4				26.4				27.4				8.4				66		
K2	4.4	4.1	107.3	97.8	25.5	25.4	100.4	98.1	26.4	26.4	100.0	98.9	7.8	7.9	98.7	98.7	83	78	106.4	115.3
M2		5.1				25.8				26.6				8.6				71		
N2	6.0	6.3	95.2	133.3	26.0	26.0	100.0	100.0	26.2	26.0	100.8	98.1	7.2	7.6	94.7	91.1	79	78	101.3	109.7
O2	4.9	4.9	100.0	108.9	25.6	25.6	100.0	98.5	26.4	26.4	100.0	98.9	8.2	7.9	103.8	103.8	74	72	102.8	102.8
Q2	6.0	5.9	101.7	133.3	26.0	25.9	100.4	100.0	26.1	26.0	100.4	97.8					71	72	98.6	98.6
R2	5.9	5.5	107.3	131.1	25.0	25.6	97.6	96.2	25.5	26.2	97.3	95.5	7.5	7.9	94.9	94.9	64	65	98.5	88.9
S2	3.1	3.4	91.2	68.9	26.1	26.4	98.9	100.4	26.2	26.6	98.5	98.1	7.8	7.8	100.0	98.7	76	76	100.0	105.6
X2	6.3	6.5	96.9	140.0	26.0	26.1	99.6	100.0	26.2	26.2	100.0	98.1	6.7	8.1	82.7	84.8	82	76	107.9	113.9
B3	5.0	5.0	100.0	111.1	26.2	26.1	100.4	100.8	27.0	26.9	100.4	101.1	8.5	8.4	101.2	107.6	72	70	102.8	100.0
FKBG DATA																				
CUR. AV.	4.5				25.9				26.6				7.8				72			
CUM. AV.	4.5				26.0				26.7				7.9				72			
IND. *D	100.0				99.6				99.6				98.7				100.0			

NOTE- NOTES A, B, C, AND D, ARE GIVEN IN APPENDIX.

TABLE II

AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 26 LB FOURDRINIER KRAFT LINERBOARD

JUNE, 1977

	MOISTURE CONTENT, PERCENT				BASIS WT., LB / M SQ FT				ADJ. BASIS WT., *A LB / M SQ FT				CALIPER, PT				BURSTING STRENGTH, P S I G			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
CODE	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
D1		5.7				26.1				26.2								69		
E1		4.1				25.4				26.4				7.2				69		
F1	5.4	4.9	110.2	120.0	26.3	26.0	101.2	101.2	27.0	26.8	100.7	101.1	8.1	8.1	100.0	102.5	69	70	98.6	95.8
G1		5.5				25.8				26.4				8.5				75		
I1	4.4	4.8	91.7	97.8	25.6	25.8	99.2	98.5	26.5	26.6	99.6	99.2	7.7	7.9	97.5	97.5	73	71	102.8	101.4
L1		6.0				26.4				26.5				8.5				71		
M1		5.3				27.1				27.2				8.5				66		
O1	4.8	4.9	98.0	106.7	25.8	26.1	98.8	99.2	26.7	26.9	99.2	100.0	9.4	9.1	103.3	115.0	72	71	101.4	100.0
Q1	3.9	3.8	102.6	86.7	26.0	25.9	100.4	100.0	27.1	27.0	100.4	101.5	7.3	7.7	94.8	92.4	77	76	101.3	106.9
R1		5.4				26.6				27.3				7.4				65		
X1	4.3	5.0	86.0	95.6	25.1	25.5	98.4	96.5	26.1	25.9	100.8	97.8	7.3	7.6	96.0	92.4	72	70	102.8	100.0
Y1		4.0				26.1				27.2				7.3				76		
Z1	4.9	4.4	111.4	108.9	26.2	26.2	100.0	100.8	26.3	26.3	100.0	98.5	8.1	8.0	101.2	102.5	72	72	100.0	100.0
A2	3.2	3.5	91.4	71.1	27.7	26.9	103.0	106.5	27.8	27.0	103.0	104.1	8.0	7.5	106.7	101.3	68	71	95.8	94.4
B2	4.0	4.2	95.2	88.9	25.4	25.5	99.6	97.7	26.4	26.5	99.6	98.9	7.4	7.1	104.2	93.7	67	68	98.5	93.0
C2	3.8	3.8	100.0	84.4	26.7	27.2	98.2	102.7	26.8	27.3	98.2	100.4	8.4	7.9	106.3	106.3	79	73	108.2	109.7
E2	4.4	4.2	104.8	97.8	26.2	26.0	100.8	100.8	27.2	27.0	100.7	101.9	7.7	7.9	97.5	97.5	73	70	104.3	101.4
G2	2.9	2.7	107.4	64.4	25.3	25.3	100.0	97.3	26.6	26.7	99.6	99.6	8.4	8.1	103.7	106.3	76	75	101.3	105.6
H2	1.3	0.8	162.5	28.9	25.8	25.7	100.4	99.2	27.6	27.6	100.0	103.4	8.4	8.2	102.4	106.3	69	66	104.5	95.8
J2		4.4				26.5				27.4				8.4				65		
K2	4.2	4.2	100.0	93.3	25.4	25.4	100.0	97.7	26.4	26.4	100.0	98.9	8.0	7.8	102.6	101.3	80	78	102.6	111.1
M2		5.1				25.9				26.7				8.6				70		
N2		6.3				26.0				26.1				7.5				79		
O2	4.8	4.9	98.0	106.7	25.4	25.6	99.2	97.7	26.2	26.4	99.2	98.1	8.2	8.0	102.5	103.8	72	72	100.0	100.0
Q2		6.0				25.9				26.0								72		
R2	5.4	5.6	96.4	120.0	25.5	25.4	100.4	98.1	26.2	26.0	100.8	98.1	8.1	7.8	103.8	102.5	63	65	96.9	87.5
S2	2.9	3.4	85.3	64.4	26.1	26.4	98.9	100.4	26.2	26.6	98.5	98.1	7.9	7.8	101.3	100.0	71	76	93.4	98.6
X2		6.4				26.1				26.2				7.9				78		
B3	5.1	5.0	102.0	113.3	26.1	26.1	100.0	100.4	26.2	26.9	97.4	98.1	8.6	8.4	102.4	108.9	71	71	100.0	98.6
FKBG DATA																				
CUR. AV.	4.1				25.9				26.7				8.0				72			
CUM. AV.	4.5				26.0				26.7				7.9				72			
IND. *D	91.1				99.6				100.0				101.3				100.0			

NOTE- NOTES A, B, C, AND D, ARE GIVEN IN APPENDIX.

TABLE III

AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 33 LB FOURDRINIER KRAFT LINERBOARD

MAY, 1977

	MOISTURE CONTENT, PERCENT				BASIS WT., LB / M SQ FT				ADJ. BASIS WT., *A LB / M SQ FT				CALIPER, PT				BURSTING STRENGTH, P S I G			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
CODE	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
A1	4.7	5.1	92.2	100.0	33.3	33.1	100.6	101.8	34.4	34.0	101.2	102.4	9.1	9.3	97.8	92.8	76	81	93.8	88.4
D1		5.9				33.2				33.3								77		
F1	5.0	5.2	96.2	106.4	32.7	32.7	100.0	100.0	33.7	33.6	100.3	100.3	10.7	10.3	103.9	109.2	78	81	96.3	90.7
G1		5.3				32.2				33.1				9.6				91		
I1	5.4	5.0	108.0	114.9	32.5	32.6	99.7	99.4	33.3	33.6	99.1	99.1	10.1	10.0	101.0	103.1	85	84	101.2	98.8
L1		5.5				33.0				33.2				10.0				88		
M1	4.4	5.4	81.5	93.6	33.4	33.3	100.3	102.1	33.5	33.4	100.3	99.7	9.0	9.2	97.8	91.8	83	84	98.8	96.5
O1		5.0				33.0				34.0				10.1				89		
Q1	4.0	4.1	97.6	85.1	32.5	32.4	100.3	99.4	33.8	33.8	100.0	100.6	9.6	9.6	100.0	98.0	86	91	94.5	100.0
R1		5.4				33.0				33.8				9.4				79		
V1		5.3				33.7				34.6				9.8				87		
X1	5.1	5.4	94.4	108.5	31.6	32.3	97.8	96.6	32.5	32.7	99.4	96.7	9.3	9.6	96.9	94.9	85	86	98.8	98.8
Y1		4.7				32.8				33.9				9.0				95		
Z1	4.5	4.6	97.8	95.7	33.1	33.1	100.0	101.2	33.2	33.2	100.0	98.8	9.9	10.0	99.0	101.0	90	89	101.1	104.6
A2	4.2	4.2	100.0	89.4	33.1	33.2	99.7	101.2	33.3	33.4	99.7	99.1	8.9	9.2	96.7	90.8	84	82	102.4	97.7
B2	5.6	4.9	114.3	119.1	32.7	32.5	100.6	100.0	33.5	33.5	100.0	99.7	9.6	9.3	103.2	98.0	83	82	101.2	96.5
C2	4.8	4.5	106.7	102.1	33.6	33.6	100.0	102.8	33.7	33.7	100.0	100.3	9.8	9.9	99.0	100.0	82	85	96.5	95.3
D2		5.8				32.7				33.4				9.6				86		
E2	4.5	4.5	100.0	95.7	33.0	32.6	101.2	100.9	34.2	33.8	101.2	101.8	10.1	10.0	101.0	103.1	85	85	100.0	98.8
F2	3.0	2.9	103.4	63.8	31.5	31.5	100.0	96.3	33.1	33.2	99.7	98.5	8.7	8.9	97.8	88.8	87	89	97.8	101.2
G2	3.1	2.6	119.2	66.0	32.0	31.8	100.6	97.8	33.6	33.7	99.7	100.0	10.8	10.1	106.9	110.2	85	90	94.4	98.8
H2	2.2	2.0	110.0	46.8	31.6	31.5	100.3	96.6	33.5	33.5	100.0	99.7	10.5	10.3	101.9	107.1	85	83	102.4	98.8
J2	5.3	4.7	112.8	112.8	34.0	34.0	100.0	104.0	34.9	35.2	99.1	103.9	11.1	11.0	100.9	113.3	78	80	97.5	90.7
K2	4.7	4.3	109.3	100.0	32.3	32.1	100.6	98.8	33.4	33.3	100.3	99.4	9.2	9.1	101.1	93.9	106	100	106.0	123.2
L2	2.9	3.5	82.8	61.7	33.9	33.9	100.0	103.7	34.2	34.2	100.0	101.8	9.0	9.5	94.7	91.8	86	81	106.2	100.0
N2	6.3	6.3	100.0	134.0	32.7	32.7	100.0	100.0	32.9	32.7	100.6	97.9	8.8	9.5	92.6	89.8	99	102	97.0	115.1
O2	5.1	5.0	102.0	108.5	32.5	32.5	100.0	99.4	33.4	33.5	99.7	99.4	10.6	10.5	101.0	108.2	84	82	102.4	97.7
Q2	5.9	5.8	101.7	125.5	33.0	33.0	100.0	100.9	33.1	33.1	100.0	98.5					84	87	96.6	97.7
R2	5.7	5.6	101.8	121.3	32.2	32.3	99.7	98.5	32.9	33.1	99.4	97.9	10.1	9.9	102.0	103.1	77	80	96.2	89.5
S2		3.5				33.6				34.0				9.9				89		
U2		5.4				32.7				33.6				10.5				77		
V2		5.2				32.7				33.6				9.5				87		
X2		6.5				33.0				33.0				10.8				96		
Y2	4.5	4.2	107.1	95.7	32.1	32.1	100.0	98.2	33.3	33.4	99.7	99.1	9.8	9.9	99.0	100.0	84	85	98.8	97.7
Z2	6.0	5.9	101.7	127.6	33.5	33.3	100.6	102.4	33.8	33.5	100.9	100.6	10.1	10.3	98.0	103.1	94	89	105.6	109.3
B3	6.0	5.9	101.7	127.6	33.0	33.0	100.0	100.9	33.7	33.7	100.0	100.3	10.4	10.4	100.0	106.1	81	82	98.8	94.2
FKBG DATA																				
CUR. AV.	4.7				32.7				33.5				9.8				85			
CUM. AV.	4.7				32.7				33.6				9.8				86			
IND. *D	100.0				100.0				99.7				100.0				98.8			

NOTE- NOTES A, B, C, AND D, ARE GIVEN IN APPENDIX.

TABLE IV

AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 33 LB FOURDRINIER KRAFT LINERBOARD

JUNE, 1977

	MOISTURE CONTENT, PERCENT				BASIS WT., LB / M SQ FT				ADJ. BASIS WT.,*A LB / M SQ FT				CALIPER, PT				BURSTING STRENGTH, P S I G			
		MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA		
CODE	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
A1		4.8				33.1				34.2				9.2				80		
D1		5.9				33.2				33.3								77		
F1	5.8	5.2	111.5	123.4	33.1	32.7	101.2	101.2	33.8	33.6	100.6	100.6	10.5	10.4	101.0	107.1	82	80	102.5	95.3
G1	4.6	5.3	86.8	97.9	32.2	32.2	100.0	98.5	33.3	33.1	100.6	99.1	9.4	9.6	97.9	95.9	96	91	105.5	111.6
I1	5.0	5.1	98.0	106.4	32.3	32.6	99.1	98.8	33.3	33.6	99.1	99.1	9.9	10.1	98.0	101.0	86	84	102.4	100.0
L1		5.5				33.0				33.2				10.0				88		
M1	5.6	5.2	107.7	119.1	33.1	33.4	99.1	101.2	33.2	33.5	99.1	98.8	9.9	9.2	107.6	101.0	90	84	107.1	104.6
O1		5.0				33.0				34.1				10.2				88		
Q1	4.0	4.0	100.0	85.1	32.1	32.4	99.1	98.2	33.4	33.8	98.8	99.4	9.5	9.6	99.0	96.9	92	91	101.1	107.0
R1		5.4				33.0				33.8				9.3				79		
U1	2.8			59.6	32.0			97.8	33.7			100.3	10.0			102.0	85			98.8
V1		5.3				33.7				34.6				9.8				87		
X1	5.3	5.3	100.0	112.8	31.9	32.2	99.1	97.6	32.8	32.6	100.6	97.6	9.5	9.5	100.0	96.9	86	86	100.0	100.0
Y1	4.3	4.7	91.5	91.5	32.4	32.8	98.8	99.1	33.6	33.9	99.1	100.0	9.0	9.0	100.0	91.8	86	95	90.5	100.0
Z1	4.9	4.6	106.5	104.2	33.1	33.1	100.0	101.2	33.2	33.2	100.0	98.8	9.8	10.0	98.0	100.0	87	88	98.9	101.2
A2	4.4	4.2	104.8	93.6	33.2	33.2	100.0	101.5	33.4	33.4	100.0	99.4	9.3	9.1	102.2	94.9	80	82	97.6	93.0
B2	5.6	4.9	114.3	119.1	32.8	32.5	100.9	100.3	33.6	33.5	100.3	100.0	9.7	9.3	104.3	99.0	81	82	98.8	94.2
C2	4.4	4.5	97.8	93.6	33.5	33.6	99.7	102.4	33.6	33.7	99.7	100.0	10.1	9.9	102.0	103.1	84	85	98.8	97.7
D2		5.8				32.7				33.4				9.6				87		
E2	4.5	4.5	100.0	95.7	32.9	32.7	100.6	100.6	34.1	33.8	100.9	101.5	9.8	10.1	97.0	100.0	91	85	107.0	105.8
F2	3.0	2.9	103.4	63.8	31.5	31.5	100.0	96.3	33.1	33.1	100.0	98.5	8.6	8.8	97.7	87.8	91	89	102.2	105.8
G2	2.7	2.6	103.8	57.4	31.9	31.8	100.3	97.6	33.7	33.6	100.3	100.3	10.3	10.1	102.0	105.1	87	89	97.8	101.2
H2	2.3	2.0	115.0	48.9	31.7	31.6	100.3	96.9	33.6	33.5	100.3	100.0	10.9	10.3	105.8	111.2	85	83	102.4	98.8
J2	5.4	4.8	112.5	114.9	34.2	34.2	100.0	104.6	35.1	35.3	99.4	104.5	11.0	11.1	99.1	112.2	79	80	98.8	91.9
K2	4.6	4.3	107.0	97.9	32.2	32.1	100.3	98.5	33.3	33.3	100.0	99.1	9.1	9.1	100.0	92.8	102	100	102.0	118.6
L2	2.9	3.4	85.3	61.7	33.5	33.9	98.8	102.4	33.8	34.2	98.8	100.6	9.1	9.5	95.8	92.8	82	81	101.2	95.3
N2		6.3				32.7				32.8				9.4				101		
O2	4.7	5.0	94.0	100.0	32.5	32.5	100.0	99.4	33.6	33.5	100.3	100.0	10.3	10.5	98.1	105.1	90	82	109.8	104.6
Q2	5.9	5.8	101.7	125.5	33.0	33.0	100.0	100.9	33.1	33.1	100.0	98.5					86	86	100.0	100.0
R2	5.5	5.6	98.2	117.0	32.5	32.3	100.6	99.4	33.3	33.0	100.9	99.1	10.0	10.0	100.0	102.0	78	79	98.7	90.7
S2		3.5				33.6				34.0				9.9				89		
U2		5.4				32.7				33.6				10.5				77		
V2	4.9	5.2	94.2	104.2	32.9	32.7	100.6	100.6	33.9	33.6	100.9	100.9	9.0	9.5	94.7	91.8	91	87	104.6	105.8
X2		6.5				33.0				33.0				10.8				96		
Y2	4.2	4.2	100.0	89.4	32.0	32.1	99.7	97.8	33.2	33.3	99.7	98.8	9.9	9.8	101.0	101.0	83	85	97.6	96.5
Z2	6.0	5.9	101.7	127.6	33.5	33.3	100.6	102.4	33.8	33.5	100.9	100.6	10.0	10.2	98.0	102.0	97	90	107.8	112.8
B3	6.1	5.9	103.4	129.8	33.1	33.0	100.3	101.2	33.2	33.7	98.5	98.8	10.2	10.4	98.1	104.1	81	82	98.8	94.2
FKBG DATA																				
CUR. AV.	4.6				32.6				33.5				9.8				87			
CUM. AV.	4.7				32.7				33.6				9.8				86			
IND. *D	97.9				99.7				99.7				100.0				101.2			

NOTE- NOTES A, B, C, AND D, ARE GIVEN IN APPENDIX.

TABLE V

AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 38 LB FOURDRINIER KRAFT LINERBOARD

MAY, 1977

	MOISTURE CONTENT, PERCENT				BASIS WT., LB / M SQ FT				ADJ. BASIS WT.,*A LB / M SQ FT				CALIPER, PT				BURSTING STRENGTH, P S I G			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
CODE	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
A1	5.0	5.5	90.9	100.0	37.3	38.0	98.2	98.4	38.4	38.9	98.7	99.2	11.1	10.6	104.7	100.9	89	89	100.0	91.8
F1	4.9	5.3	92.4	98.0	37.7	37.5	100.5	99.5	38.9	38.5	101.0	100.5	11.9	11.4	104.4	108.2	88	92	95.6	90.7
G1		4.7				36.8				38.1				10.7				104		
H1	5.0	4.9	102.0	100.0	39.1	39.2	99.7	103.2	39.2	39.3	99.7	101.3	10.6	10.5	101.0	96.4	99	97	102.1	102.1
I1	4.6	4.9	93.9	92.0	37.2	37.6	98.9	98.2	38.5	38.8	99.2	99.5	10.9	11.2	97.3	99.1	96	95	101.0	99.0
L1	5.5	5.6	98.2	110.0	38.0	38.0	100.0	100.3	38.1	38.1	100.0	98.4	10.4	11.6	89.6	94.5	99	99	100.0	102.1
M1	5.5	5.7	96.5	110.0	38.2	38.4	99.5	100.8	38.3	38.5	99.5	99.0	10.1	10.6	95.3	91.8	99	97	102.1	102.1
O1		4.6				38.0				39.3				12.0				102		
Q1	4.7	4.6	102.2	94.0	37.3	37.4	99.7	98.4	38.6	38.8	99.5	99.7	11.2	11.1	100.9	101.8	96	99	97.0	99.0
S1		4.1				39.1				39.2				11.2				90		
W1	3.3	2.3	143.5	66.0	37.6	37.4	100.5	99.2	39.4	39.6	99.5	101.8	10.5	10.3	101.9	95.4	93	99	93.9	95.9
X1	5.7	5.9	96.6	114.0	36.8	37.6	97.9	97.1	37.6	37.9	99.2	97.2	11.0	11.0	100.0	100.0	95	96	99.0	97.9
Y1	4.8	5.4	88.9	96.0	37.5	37.8	99.2	98.9	38.7	38.8	99.7	100.0	10.2	10.6	96.2	92.7	100	100	100.0	103.1
Z1	5.0	4.9	102.0	100.0	38.4	38.2	100.5	101.3	38.5	38.3	100.5	99.5	11.1	11.3	98.2	100.9	96	100	96.0	99.0
A2	4.8	4.3	111.6	96.0	38.2	38.3	99.7	100.8	38.4	38.5	99.7	99.2	10.2	10.6	96.2	92.7	95	95	100.0	97.9
B2	5.5	5.0	110.0	110.0	37.6	37.4	100.5	99.2	38.5	38.5	100.0	99.5	11.4	10.7	106.5	103.6	93	91	102.2	95.9
C2	5.4	5.2	103.8	108.0	38.7	39.0	99.2	102.1	38.8	39.1	99.2	100.2	10.9	11.0	99.1	99.1	93	97	95.9	95.9
E2	4.6	4.8	95.8	92.0	37.8	37.8	100.0	99.7	39.1	39.0	100.2	101.0	11.1	11.4	97.4	100.9	99	97	102.1	102.1
G2		2.6				36.5				38.5				11.0				102		
H2		5.4				41.0				42.1				12.8				92		
K2	4.9	4.4	111.4	98.0	37.1	36.9	100.5	97.9	38.3	38.3	100.0	99.0	10.6	10.4	101.9	96.4	113	107	105.6	116.5
O2	5.0	4.9	102.0	100.0	37.5	37.4	100.3	98.9	38.6	38.5	100.2	99.7	11.5	11.4	100.9	104.5	97	92	105.4	100.0
P2		4.7				37.8				39.1				11.2				97		
Q2		5.8				38.0				38.1								96		
S2	4.0	3.3	121.2	80.0	38.1	39.2	97.2	100.5	38.2	39.5	96.7	98.7	10.7	11.2	95.5	97.3	99	106	93.4	102.1
U2		5.3				37.1				38.1				12.0				86		
W2	5.8	5.6	103.6	116.0	37.9	37.5	101.1	100.0	38.7	38.4	100.8	100.0	11.1	11.0	100.9	100.9	98	96	102.1	101.0
Y2	4.5	4.3	104.6	90.0	37.0	37.1	99.7	97.6	38.3	38.5	99.5	99.0	11.0	11.3	97.3	100.0	94	95	98.9	96.9
Z2	5.8	5.8	100.0	116.0	38.5	38.2	100.8	101.6	38.8	38.4	101.0	100.2	10.4	11.2	92.8	94.5	105	98	107.1	108.2
B3	6.4	6.0	106.7	128.0	37.9	38.0	99.7	100.0	38.5	38.7	99.5	99.5	11.1	10.7	103.7	100.9	89	92	96.7	91.8
FKBG DATA																				
CUR. AV.	5.0				37.8				38.6				10.9				96			
CUM. AV.	5.0				37.9				38.7				11.0				97			
IND. *D	100.0				99.7				99.7				99.1				99.0			

NOTE- NOTES A, B, C, AND D, ARE GIVEN IN APPENDIX.

TABLE VI

AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 38 LB FOURDRINIER KRAFT LINERBOARD

JUNE, 1977

	MOISTURE CONTENT, PERCENT				BASIS WT., LB / M SQ FT				ADJ. BASIS WT.,*A LB / M SQ FT				CALIPER, PT				BURSTING STRENGTH, P S I G			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
CODE	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
A1		5.2				37.6				38.7				10.8				88		
F1	5.8	5.3	109.4	116.0	37.8	37.5	100.8	99.7	38.6	38.5	100.2	100.0	11.5	11.5	100.0	105.5	90	91	98.9	92.8
G1		4.7				36.8				38.1				10.7				104		
H1	4.7	4.9	95.9	94.0	38.2	39.1	97.7	100.8	38.3	39.2	97.7	99.2	10.4	10.4	100.0	95.4	97	97	100.0	100.0
I1		4.8				37.6				38.8				11.2				95		
L1		5.6				38.0				38.1				11.3				99		
M1	5.6	5.6	100.0	112.0	38.4	38.4	100.0	101.3	38.5	38.5	100.0	99.7	10.7	10.5	101.9	98.2	99	97	102.1	102.1
O1		4.6				38.0				39.3				12.0				102		
Q1	4.9	4.5	108.9	98.0	37.4	37.4	100.0	98.7	38.6	38.8	99.5	100.0	11.2	11.1	100.9	102.8	98	99	99.0	101.0
S1		4.1				39.1				39.2				11.2				90		
W1	2.9	2.4	120.8	58.0	37.8	37.5	100.8	99.7	39.8	39.6	100.5	103.1	10.2	10.3	99.0	93.6	95	98	96.9	97.9
X1	6.9	5.9	116.9	138.0	38.8	37.5	103.5	102.4	39.2	37.9	103.4	101.6	11.4	11.0	103.6	104.6	99	96	103.1	102.1
Y1	5.1	5.3	96.2	102.0	37.6	37.8	99.5	99.2	38.7	38.8	99.7	100.2	10.2	10.5	97.1	93.6	96	100	96.0	99.0
Z1	5.2	4.9	106.1	104.0	38.2	38.2	100.0	100.8	38.3	38.3	100.0	99.2	11.1	11.2	99.1	101.8	97	99	98.0	100.0
A2	5.0	4.4	113.6	100.0	38.2	38.3	99.7	100.8	38.4	38.5	99.7	99.5	10.6	10.5	101.0	97.2	92	96	95.8	94.8
B2	5.6	5.0	112.0	112.0	37.6	37.4	100.5	99.2	38.5	38.5	100.0	99.7	10.8	10.7	100.9	99.1	91	92	98.9	93.8
C2	4.8	5.2	92.3	96.0	39.0	39.0	100.0	102.9	39.1	39.1	100.0	101.3	11.3	11.0	102.7	103.7	95	96	99.0	97.9
E2	4.7	4.8	97.9	94.0	37.6	37.8	99.5	99.2	38.9	39.0	99.7	100.8	11.6	11.4	101.8	106.4	97	97	100.0	100.0
G2		2.6				36.5				38.5				11.0				102		
H2		5.4				41.0				42.1				12.8				92		
K2	4.7	4.4	106.8	94.0	37.1	37.0	100.3	97.9	38.4	38.3	100.3	99.5	10.4	10.4	100.0	95.4	112	107	104.7	115.5
O2		4.9				37.4				38.5				11.4				93		
P2		4.7				37.8				39.1				11.2				97		
Q2	5.9	5.8	101.7	118.0	38.0	38.0	100.0	100.3	38.1	38.1	100.0	98.7					93	96	96.9	95.9
S2		3.4				39.0				39.3				11.1				105		
U2		5.3				37.1				38.1				12.0				86		
W2	5.5	5.6	98.2	110.0	37.9	37.5	101.1	100.0	38.8	38.4	101.0	100.5	11.2	11.0	101.8	102.8	102	97	105.2	105.2
Y2	4.3	4.3	100.0	86.0	36.9	37.1	99.5	97.4	38.3	38.5	99.5	99.2	11.0	11.2	98.2	100.9	94	95	98.9	96.9
Z2	5.8	5.8	100.0	116.0	38.3	38.3	100.0	101.0	38.6	38.5	100.2	100.0	11.2	11.2	100.0	102.8	95	99	96.0	97.9
B3	6.6	6.1	108.2	132.0	37.9	38.0	99.7	100.0	38.0	38.7	98.2	98.4	11.1	10.7	103.7	101.8	91	92	98.9	93.8
FK8G DATA																				
CUR. AV.	5.2				37.9				38.6				10.9				96			
CUM. AV.	5.0				37.9				38.6				10.9				97			
IND. *D	104.0				100.0				100.0				100.0				99.0			

NOTE- NOTES A, B, C, AND D, ARE GIVEN IN APPENDIX.

TABLE VII

AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 42 LB FOURDRINIER KRAFT LINERBOARD

MAY, 1977

	MOISTURE CONTENT, PERCENT				BASIS WT., LB / M SQ FT				ADJ. BASIS WT., *A LB / M SQ FT				CALIPER, PT				BURSTING STRENGTH, P S I G			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
CODE	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
A1	5.5	5.9	93.2	105.8	41.3	41.6	99.3	99.3	42.3	42.4	99.8	99.5	12.0	11.4	105.3	100.0	102	99	103.0	97.1
B1	4.6	4.7	97.9	88.5	41.4	41.5	99.8	99.5	42.8	42.9	99.8	100.7	11.7	11.8	99.2	97.5	109	109	100.0	103.8
C1	7.1	6.7	106.0	136.5	42.0	42.0	100.0	101.0	42.3	42.5	99.5	99.5	11.6	11.5	100.9	96.7	101	103	98.0	96.2
E1		5.4				41.2				42.3				12.0				105		
F1	5.4	5.4	100.0	103.8	41.6	41.6	100.0	100.0	42.7	42.6	100.2	100.5	12.8	12.6	101.6	106.7	99	101	98.0	94.3
G1	4.7	5.0	94.0	90.4	40.9	41.0	99.8	98.3	42.3	42.2	100.2	99.5	12.0	12.3	97.6	100.0	107	112	95.5	101.9
H1	5.2	5.1	102.0	100.0	42.2	42.3	99.8	101.4	42.3	42.4	99.8	99.5	11.4	11.4	100.0	95.0	106	104	101.9	101.0
I1	5.4	5.1	105.9	103.8	41.4	41.4	100.0	99.5	42.5	42.5	100.0	100.0	12.2	12.4	98.4	101.7	104	101	103.0	99.0
J1		5.6				41.9				42.9				11.6				112		
K1	3.8	4.0	95.0	73.1	42.3	42.1	100.5	101.7	42.5	42.3	100.5	100.0	10.8	10.8	100.0	90.0	109	104	104.8	103.8
L1	5.6	5.5	101.8	107.7	42.0	42.0	100.0	101.0	42.1	42.1	100.0	99.0	11.3	12.4	91.1	94.2	107	104	102.9	101.9
M1	6.0	6.1	98.4	115.4	42.1	42.2	99.8	101.2	42.2	42.3	99.8	99.3	11.8	12.0	98.3	98.3	106	105	101.0	101.0
N1	4.3	4.2	102.4	82.7	40.8	41.2	99.0	98.1	42.4	42.8	99.1	99.8	11.6	11.7	99.1	96.7	104	103	101.0	99.0
P1	5.2	5.0	104.0	100.0	41.1	41.2	99.8	98.8	42.3	42.5	99.5	99.5	11.9	12.1	98.3	99.2	118	116	101.7	112.4
Q1	4.7	4.8	97.9	90.4	41.4	41.4	100.0	99.5	42.8	42.7	100.2	100.7	11.9	12.1	98.3	99.2	107	107	100.0	101.9
S1	5.3	4.8	110.4	101.9	42.0	42.7	98.4	101.0	42.1	42.8	98.4	99.0	12.0	11.8	101.7	100.0	103	102	101.0	98.1
T1	5.7	5.7	100.0	109.6	42.5	42.8	99.3	102.2	42.9	43.0	99.8	100.9	12.0	12.1	99.2	100.0	105	108	97.2	100.0
U1	5.5	6.2	88.7	105.8	41.5	41.8	99.3	99.8	42.5	42.5	100.0	100.0	12.5	12.3	101.6	104.2	103	105	98.1	98.1
V1	4.1	5.6	73.2	78.8	41.7	41.6	100.2	100.2	43.4	42.6	101.9	102.1	12.7	12.6	100.8	105.8	100	100	100.0	95.2
W1	3.8	3.2	118.8	73.1	41.2	40.8	101.0	99.0	43.0	42.8	100.5	101.2	11.6	11.4	101.8	96.7	102	105	97.1	97.1
X1	5.9	6.0	98.3	113.5	40.4	41.1	98.3	97.1	41.2	41.5	99.3	96.9	11.6	11.6	100.0	96.7	103	103	100.0	98.1
Y1	5.7	5.7	100.0	109.6	41.4	41.6	99.5	99.5	42.4	42.5	99.8	99.8	11.0	11.4	96.5	91.7	107	106	100.9	101.9
Z1	5.0	5.1	98.0	96.2	42.1	42.1	100.0	101.2	42.2	42.2	100.0	99.3	12.2	12.6	96.8	101.7	105	106	99.0	100.0
A2	5.0	4.6	108.7	96.2	42.2	42.1	100.2	101.4	42.4	42.3	100.2	99.8	11.5	11.7	98.3	95.8	103	103	100.0	98.1
B2	5.7	5.0	114.0	109.6	41.6	41.3	100.7	100.0	42.6	42.6	100.0	100.2	12.0	11.7	102.6	100.0	103	102	101.0	98.1
C2	5.0	5.3	94.3	96.2	42.3	42.4	99.8	101.7	42.4	42.5	99.8	99.8	12.0	12.1	99.2	100.0	102	105	97.1	97.1
D2	6.4	6.3	101.6	123.1	41.7	41.4	100.7	100.2	42.3	42.1	100.5	99.5	11.6	12.3	94.3	96.7	103	102	101.0	98.1
E2	5.0	5.0	100.0	96.2	41.7	41.8	99.8	100.2	43.0	43.0	100.0	101.2	12.5	12.5	100.0	104.2	106	105	101.0	101.0
F2	4.4	3.7	118.9	84.6	40.7	40.4	100.7	97.8	42.2	42.2	100.0	99.3	10.9	11.1	98.2	90.8	103	106	97.2	98.1
G2	2.9	3.1	93.5	55.8	40.7	40.8	99.8	97.8	42.9	42.8	100.2	100.9	12.5	12.5	100.0	104.2	106	112	94.6	101.0
H2	5.6	5.6	100.0	107.7	41.5	41.5	100.0	99.8	42.5	42.5	100.0	100.0	13.4	13.3	100.8	111.7	103	103	100.0	98.1
I2	6.2	6.0	103.3	119.2	41.7	41.4	100.7	100.2	42.4	42.3	100.2	99.8	12.0	11.6	103.4	100.0	103	104	99.0	98.1
J2	6.0	5.0	120.0	115.4	43.1	43.3	99.5	103.6	44.0	44.6	98.6	103.5	13.9	13.9	100.0	115.8	100	100	100.0	95.2
K2	4.9	4.6	106.5	94.2	41.0	40.9	100.2	98.6	42.3	42.3	100.0	99.5	11.9	11.6	102.6	99.2	119	115	103.5	113.3
L2	3.5	3.7	94.6	67.3	42.0	42.4	99.0	101.0	42.4	42.8	99.1	99.8	12.0	12.0	100.0	100.0	101	101	100.0	96.2
O2	5.1	5.0	102.0	98.1	41.1	41.2	99.8	98.8	42.3	42.5	99.5	99.5	12.7	12.6	100.8	105.8	102	101	101.0	97.1
P2	5.6	5.5	101.8	107.7	41.8	41.8	100.0	100.5	42.8	42.8	100.0	100.7	12.5	12.4	100.8	104.2	105	105	100.0	100.0
Q2	5.9	5.8	101.7	113.5	42.0	42.0	100.0	101.0	42.1	42.1	100.0	99.0					102	103	99.0	97.1
S2		3.7				42.4				42.5				12.4				121		
T2	2.9	3.5	82.8	55.8	40.7	41.0	99.3	97.8	42.9	42.9	100.0	100.9	12.2	12.2	100.0	101.7	107	108	99.1	101.9
U2	5.5	5.6	98.2	105.8	42.2	41.8	101.0	101.4	43.3	42.8	101.2	101.9	13.1	12.6	104.0	109.2	99	100	99.0	94.3
V2	5.6	5.6	100.0	107.7	41.4	41.5	99.8	99.5	42.4	42.5	99.8	99.8	11.9	11.9	100.0	99.2	106	104	101.9	101.0
W2	5.9	5.9	100.0	113.5	42.0	41.4	101.4	101.0	42.9	42.2	101.6	100.9	13.5	12.0	112.5	112.5	107	104	102.9	101.9
Y2	4.4	4.4	100.0	84.6	40.8	41.0	99.5	98.1	42.3	42.5	99.5	99.5	12.1	12.3	98.4	100.8	104	104	100.0	99.0
Z2	6.0	5.9	101.7	115.4	42.5	42.3	100.5	102.2	42.9	42.5	100.9	100.9	11.9	12.1	98.3	99.2	109	108	100.9	103.8
B3		6.6				42.0				42.5				11.6				104		
FKBG DATA																				
CUR. AV.	5.1					41.6				42.5				12.1				105		
CUM. AV.	5.2					41.6				42.5				12.0				105		
IND. *D	98.1					100.0				100.0				100.8				100.0		

NOTE- NOTES A, B, C, AND D, ARE GIVEN IN APPENDIX.

TABLE VIII

AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 42 LB FOURDRINIER KRAFT LINERBOARD

JUNE, 1977

	MOISTURE CONTENT, PERCENT				BASIS WT., LB / M SQ FT				ADJ. BASIS WT.,*A LB / M SQ FT				CALIPER, PT				BURSTING STRENGTH, P S I G			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
CODE	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
A1	5.4	5.9	91.5	103.8	41.4	41.5	99.8	99.5	42.5	42.4	100.2	100.0	11.7	11.5	101.7	97.5	100	100	100.0	95.2
B1	4.6	4.6	100.0	88.5	41.3	41.4	99.8	99.3	42.7	42.8	99.8	100.5	11.6	11.8	98.3	96.7	117	109	107.3	111.4
C1	7.3	6.7	109.0	140.4	42.0	42.0	100.0	101.0	42.1	42.5	99.0	99.0	11.7	11.5	101.7	97.5	100	103	97.1	95.2
E1		5.4				41.2				42.3				12.0				105		
F1	6.0	5.4	111.1	115.4	41.8	41.6	100.5	100.5	42.6	42.6	100.0	100.2	13.0	12.7	102.4	108.3	100	101	99.0	95.2
G1	5.0	5.0	100.0	96.2	41.1	41.0	100.2	98.8	42.3	42.2	100.2	99.5	12.3	12.2	100.8	102.5	110	111	99.1	104.8
H1	5.0	5.1	98.0	96.2	42.2	42.3	99.8	101.4	42.3	42.4	99.8	99.5	11.4	11.3	100.9	95.0	104	104	100.0	99.0
I1	5.3	5.2	101.9	101.9	41.5	41.4	100.2	99.8	42.6	42.6	100.0	100.2	12.4	12.4	100.0	103.3	104	102	102.0	99.0
J1		5.7				41.9				42.9				11.6				112		
K1	4.1	4.0	102.5	78.8	42.2	42.1	100.2	101.4	42.4	42.3	100.2	99.8	11.0	10.8	101.8	91.7	107	104	102.9	101.9
L1		5.5				42.0				42.1				12.2				105		
M1	6.0	6.1	98.4	115.4	42.1	42.2	99.8	101.2	42.2	42.3	99.8	99.3	12.2	11.9	102.5	101.7	107	105	101.9	101.9
N1	4.3	4.2	102.4	82.7	40.9	41.1	99.5	98.3	42.5	42.7	99.5	100.0	11.6	11.7	99.1	96.7	105	103	101.9	100.0
P1		5.0				41.2				42.4				12.0				116		
Q1		4.8				41.3				42.7				12.1				106		
S1	5.1	4.8	106.2	98.1	42.0	42.6	98.6	101.0	42.1	42.7	98.6	99.0	12.3	11.8	104.2	102.5	103	103	100.0	98.1
T1	5.8	5.7	101.8	111.5	42.9	42.7	100.5	103.1	43.3	43.0	100.7	101.9	12.2	12.1	100.8	101.7	106	108	98.1	101.0
U1	5.4	6.2	87.1	103.8	41.4	41.8	99.0	99.5	42.5	42.5	100.0	100.0	12.5	12.3	101.6	104.2	102	104	98.1	97.1
V1	4.5	5.4	83.3	86.5	41.7	41.6	100.2	100.2	43.2	42.7	101.2	101.6	12.6	12.6	100.0	105.0	101	100	101.0	96.2
W1	3.6	3.2	112.5	69.2	41.2	40.8	101.0	99.0	43.1	42.8	100.7	101.4	11.1	11.4	97.4	92.5	102	104	98.1	97.1
X1	5.7	5.9	96.6	109.6	41.0	41.0	100.0	98.6	41.9	41.4	101.2	98.6	11.8	11.6	101.7	98.3	108	103	104.8	102.8
Y1	5.7	5.7	100.0	109.6	41.5	41.5	100.0	99.8	42.5	42.5	100.0	100.0	11.0	11.3	97.3	91.7	102	106	96.2	97.1
Z1	5.2	5.0	104.0	100.0	42.1	42.1	100.0	101.2	42.2	42.2	100.0	99.3	12.3	12.5	98.4	102.5	106	106	100.0	101.0
A2	4.8	4.7	102.1	92.3	42.2	42.1	100.2	101.4	42.4	42.3	100.2	99.8	11.7	11.6	100.9	97.5	104	104	100.0	99.0
B2	5.2	5.0	104.0	100.0	41.4	41.3	100.2	99.5	42.6	42.6	100.0	100.2	12.0	11.8	101.7	100.0	102	102	100.0	97.1
C2	5.1	5.2	98.1	98.1	42.5	42.4	100.2	102.2	42.6	42.5	100.2	100.2	12.0	12.1	99.2	100.0	104	104	100.0	99.0
D2	6.1	6.3	96.8	117.3	41.2	41.5	99.3	99.0	41.9	42.1	99.5	98.6	11.8	12.3	95.9	98.3	104	102	102.0	99.0
E2	4.9	5.0	98.0	94.2	41.8	41.8	100.0	100.5	43.1	43.0	100.2	101.4	12.8	12.6	101.6	106.7	106	105	101.0	101.0
G2	3.3	3.8	86.8	63.5	41.0	40.4	101.5	98.6	43.0	42.2	101.9	101.2	12.7	11.0	115.4	105.8	110	106	103.8	104.8
F2	4.0	3.0	133.3	76.9	40.5	40.8	99.3	97.4	42.2	42.8	98.6	99.3	10.9	12.4	87.9	90.8	104	111	93.7	99.0
H2	5.5	5.6	98.2	105.8	41.4	41.5	99.8	99.5	42.4	42.5	99.8	99.8	13.6	13.3	102.2	113.3	104	103	101.0	99.0
I2	5.2	6.0	86.7	100.0	42.0	41.5	101.2	101.0	43.2	42.3	102.1	101.6	12.0	11.6	103.4	100.0	103	104	99.0	98.1
J2	5.9	5.1	115.7	113.5	43.5	43.3	100.5	104.6	44.4	44.6	99.6	104.5	13.4	14.0	95.7	111.7	101	99	102.0	96.2
K2	4.9	4.7	104.2	94.2	41.0	40.9	100.2	98.6	42.3	42.3	100.0	99.5	11.9	11.6	102.6	99.2	115	115	100.0	109.5
L2	3.6	3.7	97.3	69.2	42.4	42.4	100.0	101.9	42.8	42.8	100.0	100.7	12.0	12.0	100.0	100.0	102	101	101.0	97.1
O2	4.8	5.0	96.0	92.3	41.0	41.2	99.5	98.6	42.4	42.5	99.8	99.8	12.6	12.6	100.0	105.0	102	101	101.0	97.1
P2	5.3	5.5	96.4	101.9	41.7	41.8	99.8	100.2	42.8	42.8	100.0	100.7	12.4	12.5	99.2	103.3	107	105	101.9	101.9
Q2	5.9	5.8	101.7	113.5	42.0	42.0	100.0	101.0	42.1	42.1	100.0	99.0					102	102	100.0	97.1
S2	4.6	3.7	124.3	88.5	42.2	42.4	99.5	101.4	42.3	42.5	99.5	99.5	12.1	12.4	97.6	100.8	109	121	90.1	103.8
T2	3.1	3.5	88.6	59.6	41.2	41.0	100.5	99.0	43.3	42.9	100.9	101.9	12.4	12.2	101.6	103.3	106	108	98.1	101.0
U2	5.9	5.6	105.4	113.5	41.9	41.8	100.2	100.7	42.8	42.8	100.0	100.7	13.0	12.6	103.2	108.3	97	100	97.0	92.4
V2	5.5	5.6	98.2	105.8	41.3	41.5	99.5	99.3	42.3	42.5	99.5	99.5	11.7	11.9	98.3	97.5	105	104	101.0	100.0
W2	5.7	5.9	96.6	109.6	41.9	41.4	101.2	100.7	42.9	42.3	101.4	100.9	12.9	12.1	106.6	107.5	106	104	101.9	101.0
Y2	4.4	4.4	100.0	84.6	40.7	41.0	99.3	97.8	42.2	42.5	99.3	99.3	12.2	12.3	99.2	101.7	103	104	99.0	98.1
Z2	6.0	5.9	101.7	115.4	42.5	42.3	100.5	102.2	42.9	42.5	100.9	100.9	12.1	12.0	100.8	100.8	106	108	98.1	101.0
B3	7.1	6.6	107.6	136.5	41.9	42.0	99.8	100.7	42.0	42.5	98.8	98.8	11.8	11.5	102.6	98.3	103	105	98.1	98.1
FKBG DATA																				
CUR. AV.	5.1				41.7				42.6				12.1				105			
CUM. AV.	5.2				41.6				42.5				12.0				105			
IND. *D	98.1				100.2				100.2				100.8				100.0			

NOTE- NOTES A, B, C, AND D, ARE GIVEN IN APPENDIX.

TABLE IX

AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 69 LB FOURDRINIER KRAFT LINERBOARD

MAY, 1977

	MOISTURE CONTENT, PERCENT				BASIS WT., LB / M SQ FT				ADJ. BASIS WT.,*A LB / M SQ FT				CALIPER, PT				BURSTING STRENGTH, P S I G			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
CODE	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
A1	7.0	6.3	111.1	118.6	68.0	68.0	100.0	99.1	68.6	69.1	99.3	98.6	20.4	19.0	107.4	103.6	136	133	102.2	95.8
B1	5.2	5.5	94.5	88.1	68.1	68.5	99.4	99.3	70.0	70.2	99.7	100.6	20.0	20.3	98.5	101.5	139	140	99.3	97.9
C1	8.1	7.9	102.5	137.3	69.0	69.2	99.7	100.6	68.8	69.1	99.6	98.8	20.4	19.5	104.6	103.6	138	142	97.2	97.2
H1	6.2	5.8	106.9	105.1	69.1	69.2	99.8	100.7	69.3	69.4	99.8	99.6	19.4	19.6	99.0	98.5	137	138	99.3	96.5
J1	6.2	5.7	108.8	105.1	68.9	68.9	100.0	100.4	70.1	70.5	99.4	100.7	20.7	19.6	105.6	105.1	140	143	97.9	98.6
K1	5.3	5.2	101.9	89.8	69.0	69.0	100.0	100.6	69.3	69.3	100.0	99.6	19.0	18.5	102.7	96.4	139	140	99.3	97.9
L1	5.8	5.6	103.6	98.3	69.0	68.9	100.1	100.6	69.2	69.1	100.1	99.4	18.1	19.2	94.3	91.9	154	147	104.8	108.4
M1	6.6	6.7	98.5	111.9	69.0	69.1	99.8	100.6	69.2	69.3	99.8	99.4	19.0	19.6	96.9	96.4	145	144	100.7	102.1
N1	4.5	4.6	97.8	76.3	67.3	67.7	99.4	98.1	69.7	70.0	99.6	100.1	18.4	18.5	99.4	93.4	142	142	100.0	100.0
P1	5.5	5.5	100.0	93.2	67.8	67.8	100.0	98.8	69.5	69.5	100.0	99.8	19.7	19.4	101.5	100.0	155	150	103.3	109.2
Q1		5.8				68.4				70.0				20.6				140		
S1	5.2	5.0	104.0	88.1	69.0	69.4	99.4	100.6	69.2	69.6	99.4	99.4	18.2	18.2	100.0	92.4	147	143	102.8	103.5
T1	6.6	6.4	103.1	111.9	69.7	69.6	100.1	101.6	70.3	69.9	100.6	101.0	20.3	20.4	99.5	103.0	142	144	98.6	100.0
U1	6.2	6.4	96.9	105.1	68.4	68.6	99.7	99.7	69.6	69.6	100.0	100.0	19.6	19.5	100.5	99.5	144	143	100.7	101.4
V1	4.9	6.1	80.3	83.0	68.3	68.1	100.3	99.6	70.4	69.4	101.4	101.1	21.5	21.0	102.4	109.1	132	133	99.2	93.0
W1	5.8	5.6	103.6	98.3	68.3	68.1	100.3	99.6	69.8	69.8	100.0	100.3	18.5	18.6	99.5	93.9	134	140	95.7	94.4
X1	6.2	6.4	96.9	105.1	66.1	67.7	97.6	96.4	67.2	68.2	98.5	96.6	18.8	19.2	97.9	95.4	140	142	98.6	98.6
Y1	6.8	6.8	100.0	115.2	68.7	68.7	100.0	100.1	69.5	69.5	100.0	99.8	18.3	18.5	98.9	92.9	143	148	96.6	100.7
Z1	5.5	5.5	100.0	93.2	69.2	69.2	100.0	100.9	69.4	69.4	100.0	99.7	19.7	19.9	99.0	100.0	146	142	102.8	102.8
C2	5.8	6.3	92.1	98.3	69.7	69.6	100.1	101.6	69.9	69.8	100.1	100.4	19.4	19.8	98.0	98.5	138	138	100.0	97.2
D2	6.7	7.2	93.0	113.6	68.5	68.7	99.7	99.8	69.3	69.1	100.3	99.6	19.5	20.9	93.3	99.0	139	135	103.0	97.9
F2	4.8	4.1	117.1	81.4	67.1	66.7	100.6	97.8	69.3	69.3	100.0	99.6	18.7	18.9	98.9	94.9	140	141	99.3	98.6
G2	3.5	3.7	94.6	59.3	67.4	67.4	100.0	98.2	70.6	70.4	100.3	101.4	20.1	20.3	99.0	102.0	145	148	98.0	102.1
I2		6.9				68.9				69.6				20.0				139		
L2	4.3	4.4	97.7	72.9	69.2	69.2	100.0	100.9	69.8	69.8	100.0	100.3	19.5	19.4	100.5	99.0	145	144	100.7	102.1
P2	7.2	7.1	101.4	122.0	68.7	68.6	100.1	100.1	69.2	69.1	100.1	99.4	20.2	20.1	100.5	102.5	145	144	100.7	102.1
T2	3.7	4.0	92.5	62.7	67.4	67.5	99.8	98.2	70.4	70.3	100.1	101.1	21.0	20.5	102.4	106.6	149	143	104.2	104.9
U2	6.8	6.6	103.0	115.2	70.1	69.2	101.3	102.2	70.9	70.1	101.1	101.9	22.0	21.4	102.8	111.7	139	138	100.7	97.9
V2	6.5	6.6	98.5	110.2	68.6	68.6	100.0	100.0	69.6	69.5	100.1	100.0	20.6	21.0	98.1	104.6	143	137	104.4	100.7
W2	6.7	6.8	98.5	113.6	69.0	68.8	100.3	100.6	69.8	69.5	100.4	100.3	20.3	20.5	99.0	103.0	140	139	100.7	98.6
Y2	4.7	5.2	90.4	79.7	67.2	67.6	99.4	98.0	69.5	69.5	100.0	99.8	19.7	19.8	99.5	100.0	140	139	100.7	98.6
Z2	6.1	6.0	101.7	103.4	69.6	69.4	100.3	101.4	70.2	70.0	100.3	100.9	19.9	20.0	99.5	101.0	144	147	98.0	101.4
A3	6.0	5.9	101.7	101.7	68.2	68.5	99.6	99.4	69.6	69.9	99.6	100.0	18.3	19.6	93.4	92.9	147	145	101.4	103.5
FKBG DATA																				
CUR. AV.	5.8				68.5				69.6				19.6				142			
CUM. AV.	5.9				68.6				69.6				19.7				142			
IND. *D	98.3				99.8				100.0				99.5				100.0			

NOTE- NOTES A, B, C, AND D, ARE GIVEN IN APPENDIX.

TABLE X

AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 69 LB FOURDRINIER KRAFT LINERBOARD

JUNE, 1977

	MOISTURE CONTENT, PERCENT				BASIS WT., LB / M SQ FT				ADJ. BASIS WT.,*A LB / M SQ FT				CALIPER, PT				BURSTING STRENGTH, P S I G			
		MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA		
CODE	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
A1	6.3	6.5	96.9	106.8	68.3	68.1	100.3	99.6	69.4	69.0	100.6	99.7	20.0	19.1	104.7	101.5	135	133	101.5	95.1
B1	5.3	5.4	98.1	89.8	68.2	68.6	99.4	99.4	70.0	70.3	99.6	100.6	19.3	20.3	95.1	98.0	152	140	108.6	107.0
C1	8.1	7.9	102.5	137.3	69.1	69.2	99.8	100.7	69.3	69.0	100.4	99.6	20.4	19.6	104.1	103.6	137	141	97.2	96.5
H1	5.8	5.8	100.0	98.3	69.2	69.2	100.0	100.9	69.4	69.4	100.0	99.7	19.7	19.5	101.0	100.0	137	138	99.3	96.5
J1	6.3	5.7	110.5	106.8	69.1	68.9	100.3	100.7	70.2	70.5	99.6	100.9	19.4	19.7	98.5	98.5	148	143	103.5	104.2
K1	5.1	5.2	98.1	86.4	69.0	69.0	100.0	100.6	69.3	69.3	100.0	99.6	19.0	18.5	102.7	96.4	142	140	101.4	100.0
L1		5.6				68.9				69.1				19.1				148		
M1	7.0	6.7	104.5	118.6	69.0	69.1	99.8	100.6	69.2	69.3	99.8	99.4	18.5	19.5	94.9	93.9	150	144	104.2	105.6
N1	4.3	4.5	95.6	72.9	67.2	67.7	99.3	98.0	69.8	70.0	99.7	100.3	18.6	18.5	100.5	94.4	139	142	97.9	97.9
P1	5.2	5.5	94.5	88.1	68.1	67.8	100.4	99.3	70.0	69.5	100.7	100.6	19.5	19.4	100.5	99.0	155	150	103.3	109.2
Q1		5.6				68.3				69.9				20.4				139		
S1	5.3	5.0	106.0	89.8	69.0	69.4	99.4	100.6	69.2	69.6	99.4	99.4	19.2	18.1	106.1	97.5	143	144	99.3	100.7
T1	6.1	6.4	95.3	103.4	69.7	69.6	100.1	101.6	70.3	70.0	100.4	101.0	20.2	20.4	99.0	102.5	141	144	97.9	99.3
U1	6.2	6.4	96.9	105.1	68.4	68.6	99.7	99.7	69.6	69.6	100.0	100.0	20.1	19.4	103.6	102.0	141	143	98.6	99.3
V1	5.3	6.0	88.3	89.8	68.3	68.2	100.1	99.6	70.1	69.4	101.0	100.7	21.5	21.0	102.4	109.1	132	133	99.2	93.0
W1	6.0	5.6	107.1	101.7	68.4	68.1	100.4	99.7	69.8	69.7	100.1	100.3	17.8	18.6	95.7	90.4	135	140	96.4	95.1
X1	6.2	6.3	98.4	105.1	68.2	67.5	101.0	99.4	69.4	68.0	102.0	99.7	19.8	19.1	103.7	100.5	144	142	101.4	101.4
Y1	7.1	6.7	106.0	120.3	68.8	68.7	100.1	100.3	69.4	69.5	99.8	99.7	18.1	18.5	97.8	91.9	142	148	95.9	100.0
Z1	5.5	5.5	100.0	93.2	69.3	69.2	100.1	101.0	69.5	69.4	100.1	99.8	19.7	19.9	99.0	100.0	146	142	102.8	102.8
A2	5.9			100.0	69.0			100.6	69.3			99.6	20.5			104.1	140			98.6
C2	5.4	6.2	87.1	91.5	70.0	69.6	100.6	102.0	70.2	69.8	100.6	100.9	19.7	19.7	100.0	100.0	137	138	99.3	96.5
D2	6.9	7.2	95.8	116.9	68.3	68.7	99.4	99.6	69.0	69.1	99.8	99.1	18.8	20.8	90.4	95.4	136	136	100.0	95.8
F2	4.6	4.2	109.5	78.0	66.9	66.7	100.3	97.5	69.2	69.3	99.8	99.4	18.6	18.8	98.9	94.4	137	141	97.2	96.5
G2		3.6				67.4				70.5				20.3				148		
I2		6.6				68.7				69.6				20.3				136		
L2	4.7	4.4	106.8	79.7	68.7	69.3	99.1	100.1	69.3	69.9	99.1	99.6	19.2	19.5	98.5	97.5	144	145	99.3	101.4
P2	7.0	7.1	98.6	118.6	68.7	68.6	100.1	100.1	69.3	69.1	100.3	99.6	20.2	20.2	100.0	102.5	147	144	102.1	103.5
T2	4.0	3.9	102.6	67.8	67.5	67.4	100.1	98.4	70.3	70.3	100.0	101.0	20.8	20.6	101.0	105.6	142	143	99.3	100.0
U2	6.5	6.6	98.5	110.2	68.5	69.3	98.8	99.8	69.5	70.2	99.0	99.8	21.2	21.4	99.1	107.6	139	138	100.7	97.9
V2	6.2	6.6	93.9	105.1	68.4	68.6	99.7	99.7	69.6	69.5	100.1	100.0	20.6	21.0	98.1	104.6	143	137	104.4	100.7
W2	6.5	6.8	95.6	110.2	69.2	68.8	100.6	100.9	70.2	69.5	101.0	100.9	20.4	20.5	99.5	103.6	140	139	100.7	98.6
Y2	5.2	5.1	102.0	88.1	67.6	67.5	100.1	98.5	69.5	69.5	100.0	99.8	19.9	19.8	100.5	101.0	139	139	100.0	97.9
Z2	6.1	6.0	101.7	103.4	69.4	69.5	99.8	101.2	70.0	70.0	100.0	100.6	20.1	20.0	100.5	102.0	143	146	97.9	100.7
A3	6.4	5.9	108.5	108.5	68.8	68.5	100.4	100.3	69.8	69.9	99.8	100.3	19.3	19.5	99.0	98.0	149	144	103.5	104.9
FKBG DATA																				
CUR. AV.	5.9				68.6				69.6				19.7				142			
CUM. AV.	5.9				68.6				69.6				19.7				142			
IND. *D	100.0				100.0				100.0				100.0				100.0			

NOTE- NOTES A, B, C, AND D, ARE GIVEN IN APPENDIX.

TABLE XI

AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 90 LB FOURDRINIER KRAFT LINERBOARD

MAY, 1977

CODE	MOISTURE CONTENT, PERCENT				BASIS WT., LB / M SQ FT				ADJ. BASIS WT.,*A LB / M SQ FT				CALIPER, PT				BURSTING STRENGTH, P S I G			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
A1	6.6	7.0	94.3	110.0	89.1	87.9	101.4	99.6	90.3	88.7	101.8	99.4	25.9	24.3	106.6	101.6	171	163	104.9	100.0
H1	5.9	6.1	96.7	98.3	90.4	90.3	100.1	101.0	90.7	90.6	100.1	99.9	25.2	25.8	97.7	98.8	168	168	100.0	98.2
J1		6.2				89.9				91.4				25.4				162		
K1		5.2				90.8				91.3				23.0				168		
L1	6.3	5.6	112.5	105.0	88.5	89.6	98.8	98.9	88.8	89.9	98.8	97.8	23.4	25.2	92.8	91.8	166	173	96.0	97.1
P1	5.2	5.4	96.3	86.7	88.3	88.6	99.7	98.6	90.8	91.0	99.8	100.0	26.5	26.0	101.9	103.9	170	175	97.1	99.4
S1	5.3	4.9	108.2	88.3	90.4	90.5	99.9	101.0	90.7	90.8	99.9	99.9	23.5	24.2	97.1	92.2	173	172	100.6	101.2
T1	6.6	6.5	101.5	110.0	90.8	90.8	100.0	101.4	91.6	91.3	100.3	100.9	27.0	27.0	100.0	105.9	169	172	98.2	98.8
U1	6.6	6.8	97.0	110.0	89.8	90.1	99.7	100.3	91.0	91.1	99.9	100.2	25.8	25.7	100.4	101.2	178	173	102.9	104.1
V1		6.1				88.0				89.6				27.2				162		
W1	5.9	5.7	103.5	98.3	89.5	89.1	100.4	100.0	91.4	91.2	100.2	100.7	24.9	24.5	101.6	97.6	153	166	92.2	89.5
Y1	6.4	7.0	91.4	106.7	89.2	89.8	99.3	99.7	90.5	90.6	99.9	99.7	23.8	24.4	97.5	93.3	175	179	97.8	102.3
F2	4.7	4.0	117.5	78.3	87.4	86.8	100.7	97.6	90.4	90.3	100.1	99.6	25.0	25.6	97.6	98.0	157	161	97.5	91.8
G2	2.8	3.3	84.8	46.7	87.3	87.7	99.5	97.5	92.0	92.0	100.0	101.3	25.7	25.3	101.6	100.8	186	180	103.3	108.8
P2	7.3	7.4	98.6	121.7	89.4	89.6	99.8	99.9	89.8	90.0	99.8	98.9	26.2	25.8	101.6	102.7	180	172	104.6	105.3
T2		3.8				87.9				91.7				26.5				177		
Y2	5.3	5.2	101.9	88.3	88.4	88.4	100.0	98.8	90.8	90.9	99.9	100.0	25.6	25.7	99.6	100.4	168	167	100.6	98.2
A3	6.9	7.0	98.6	115.0	90.4	90.4	100.0	101.0	91.3	91.2	100.1	100.6	22.6	25.5	88.6	88.6	173	169	102.4	101.2
FKBG DATA																				
CUR. AV.	5.8				89.2				90.7				25.1				170			
CUM. AV.	6.0				89.5				90.8				25.5				171			
IND. *D	96.7				99.7				99.9				98.4				99.4			

NOTE- NOTES A, B, C, AND D, ARE GIVEN IN APPENDIX.

TABLE XII

AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 90 LB FOURDRINIER KRAFT LINERBOARD

JUNE, 1977

CODE	MOISTURE CONTENT, PERCENT				BASIS WT., LB / M SQ FT				ADJ. BASIS WT.,*A LB / M SQ FT				CALIPER, PT				BURSTING STRENGTH, P S I G			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CLM. AV.	FACT. *B	IND. *C
A1	6.9	6.9	100.0	115.0	88.9	88.1	100.9	99.4	89.8	89.0	100.9	98.9	25.8	24.6	104.9	101.6	164	165	99.4	95.9
H1	5.3	6.1	86.9	88.3	90.6	90.3	100.3	101.3	90.9	90.6	100.3	100.1	26.0	25.6	101.6	102.4	162	168	96.4	94.7
J1	6.1	6.2	98.4	101.7	89.2	89.9	99.2	99.8	90.8	91.4	99.3	100.0	26.0	25.4	102.4	102.4	167	162	103.1	97.7
K1	5.5	5.2	105.8	91.7	91.2	90.8	100.4	102.0	91.7	91.3	100.4	101.0	24.1	23.C	104.E	94.9	168	168	100.0	98.2
L1		5.7				89.4				89.8				25.0				173		
P1		5.4				88.6				90.9				26.0				174		
S1	5.2	5.0	104.0	86.7	90.2	90.4														
T1	6.6	6.5	101.5	110.0	90.6	90.8	99.8	100.9	90.5	90.8	99.7	99.7	24.5	24.1	101.6	96.4	160	171	93.6	93.6
U1	6.4	6.8	94.1	106.7	89.7	90.1	99.8	101.3	91.4	91.3	100.1	100.7	27.0	27.0	ICO.C	ICC.3	168	172	97.7	98.2
V1		6.1				88.0	99.6	100.3	91.0	91.0	100.0	100.2	26.3	25.6	IC2.7	103.5	182	173	105.2	106.4
W1	5.8	5.6	103.6	96.7	89.4	89.1				89.6				27.2				162		
Y1	6.9	6.9	102.9	118.3	89.8	89.7	100.3	100.0	91.4	91.2	100.2	100.7	23.8	24.4	97.5	93.7	157	165	95.2	91.8
F2	4.5	4.2	107.1	75.0	87.0	86.9	100.1	100.4	90.5	90.6	99.9	99.7	23.6	24.3	97.1	92.9	179	179	100.0	104.7
G2	3.8	3.0	126.7	63.3	88.3	87.5	100.9	98.8	90.1	90.4	99.7	99.2	24.6	25.6	96.1	96.8	173	160	108.1	101.2
P2	6.9	7.3	94.5	115.0	89.3	89.5	99.8	99.9	90.2	92.0	100.1	101.4	26.6	25.5	104.3	104.7	175	183	95.6	102.3
T2	3.7	3.8	97.4	61.7	87.9	87.9	100.0	98.3	91.8	91.7	100.1	101.1	26.4	26.5	99.6	103.9	175	177	98.9	102.9
Y2	5.3	5.2	101.9	88.3	88.5	88.3	100.2	99.0	90.9	90.8	100.1	100.1	25.4	25.7	98.E	ICC.0	165	167	98.8	96.5
A3	7.2	7.0	102.8	120.0	90.6	90.4	100.2	101.3	91.2	91.2	100.0	100.4	24.9	25.3	98.4	98.0	167	169	98.8	97.7
FKBG DATA CUR. AV.		5.8				89.4				91.0				25.4				169		
CUM. AV.		6.0				89.4				90.8				25.4				171		
IND. *D	96.7					100.0				100.2				100.0				98.8		

NOTE- NOTES A, B, C, AND D, ARE GIVEN IN APPENDIX.

Data submitted by the participating mills relative to conditioning and testing environments are summarized in Table XIII. The procedures used in calculating adjusted basis weight, cumulative machine averages, machine factors, machine indexes, and F.K.B.G. indexes are described in the Appendix.

It should be explained that the number of machines for which data are compiled in each table for a specified month varies for these reasons: a machine must have (a) produced at least 500 tons of the pertinent grade weight during the specified month, or (b) produced 500 tons of the pertinent grade weight during any one or more of the 12 months prior to the specified month (so that a cumulative average is available), to be included in a given table.

TABLE XIII

DATA ON CONDITIONING AND TESTING ENVIRONMENTS

MAY AND JUNE, 1977

Code	Conditioning Environment: Are Quality Samples Conditioned Before Testing?	Procedure: Time	Temp., °F	RH, %	Testing Environment: Are Quality Samples Tested Under Controlled Conditions of Temperature & Humidity?
A1	No	--	--	--	No
B1	No	--	--	--	Yes: 73 ± 3.5°F; 50 ± 2% RH
C1	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
D1	No data submitted for May and June				
E1	No data submitted for May and June				
F1	No	--	--	--	No
G1	No	--	--	--	No
H1	No	--	--	--	Yes: 75 ± 5°F; 50 ± 5% RH
I1	No	--	--	--	Yes: 73 ± 4°F; 50 ± 10% RH
J1	No	--	--	--	No
K1	No	--	--	--	Yes: 73 ± 3°F; 50 ± 2% RH
L1	No	--	--	--	No
M1	No	--	--	--	No
N1	No	--	--	--	No
O1	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
P1	No	--	--	--	No
Q1	No	--	--	--	Yes: 73 ± 3.5°F; 50 ± 2% RH
R1	No data submitted for May and June				
S1	No	--	--	--	No
T1	No	--	--	--	Yes: 73 ± 3°F; 50 ± 2% RH
U1	No	--	--	--	No
V1	Yes	10 Min	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
W1	No	--	--	--	Yes: 70 ± 2°F; 50 ± 5% RH
X1	Yes	15 Min	--	--	Yes: 73 ± 2°F; 50 ± 1% RH
Y1	No	--	--	--	Yes: 72 ± 2°F; 50 ± 1% RH
Z1	No	--	--	--	Yes: 73 ± 3°F; 50 ± 2% RH
A2	No	--	--	--	Yes: 73 ± 3°F; 50 ± 2% RH
B2	No	--	--	--	No
C2	No	--	--	--	Yes: 70 ± 2°F; 50 ± 2% RH
D2	No	--	--	--	No
E2	No	--	--	--	No
F2	No	--	--	--	No
G2	No	--	--	--	No
H2	No	--	--	--	No
I2	No	--	--	--	No
J2	No	--	--	--	Yes: 72 ± 3.5°F; 50 ± 2% RH
K2	No	--	--	--	No
L2	Yes	15 Min	--	--	Yes: 70 ± 2°F; 50 ± 2% RH
M2	Insufficient tonnage for May and June				
N2	Yes	20 Min	--	--	Yes: 72 ± 2°F; 50 ± 2% RH
O2	No	--	--	--	Yes: 73 ± 3°F; 50% RH
P2	No	--	--	--	No
Q2	No	--	--	--	No
R2	Yes	10 Min	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
S2	Yes	15 Min	--	--	Yes: 73 ± 3.5°F; 50 ± 3% RH
T2	No	--	--	--	No
U2	No	--	--	--	No
V2	No	--	--	--	Yes: 73 ± 4°F; 50 ± 10% RH
W2	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
X2	Yes	20 Min	--	--	Yes: 72 ± 2°F; 50 ± 2% RH
Y2	No	--	--	--	No
Z2	No	--	--	--	Yes: 73 ± 3°F; 50 ± 2% RH
A3	No	--	--	--	No
B3	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH

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APPENDIX

NOTES A, B, C, AND D, USED IN TABULATIONS OF MILL DATA

Notes A, B, C, and D, used in the tables of mill data are given below; these notes define the procedure used in calculating adjusted basis weight, machine factor, machine index, and F.K.B.G. index. It should be stressed that each formula is applicable only to a specific physical property of a specific grade weight of linerboard.

Note A: Adjusted basis weight (ABW) = reported weight (RBW) adjusted to moisture content of 7.8%:

$$ABW = RBW \left[\frac{(100 - \text{reported moisture content, \%})}{(100 - 7.8)}\right]$$

Note B: Machine factor (%) $= \left[\frac{\text{Current machine average}}{\text{Cumulative machine average}}\right] \cdot 100$ where

$$\text{Cumulative machine average} = \sum \frac{\text{CMA's}^{a} \text{ for previous 12 months excluding CMA for current month}}{12}$$

Note C: Machine index (%) $= \left[\frac{\text{Current machine average}}{\text{Cumulative F.K.B.G. average}}\right] \cdot 100$ where

$$\text{Cumulative F.K.B.G. average} = \sum \frac{\text{CFKBGA's}^{b} \text{ for previous 12 months excluding CFKBGA for current month}}{12}$$

Note D: F.K.B.G. index (%) $= \left[\frac{\text{Current F.K.B.G. average}}{\text{Cumulative F.K.B.G. average}}\right] \cdot 100$ where

$$\text{Current F.K.B.G. average} = \sum \frac{\text{CMA's}^{a} \text{ for current month for all machines}}{\text{Number of machines}}$$

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[a] CMA = current machine average for a specific physical property of a specific linerboard grade weight obtained during a given month on a specific machine.

[b] CFKBGA = current F.K.B.G. average for a specific physical property of a specific linerboard grade weight obtained during a given month.